

2. (Amended) The electrophoresis device according to claim 1, in which the injection channel [(I)] has channel expansions at [the] said application areas [(A)].

3. (Amended) The electrophoresis device according to [one of the preceding claims] claim 1, in which the injection channel [(I)] for each separation channel has a molecule trap [(M)] on the side of the respective crossing point lying opposite the respective application area [(A)].

4. (Amended) The electrophoresis device according to claim 3, in which the molecule trap [(M)] is a channel expansion, a semi-permeable membrane or a three-dimensional, porous structure.

5. (Amended) The electrophoresis device according to [one of the preceding claims] claim 1, in which the separation channels [(S)] and the injection channel [(I)] are incorporated on a carrier chip [(C)], which is part of an electrophoresis chamber [(K)] with buffer reservoirs [(P1, P2)] each with one electrode [(E1 or E2)].

6. (Amended) The electrophoresis device according to claim 5, in which the carrier chip [(C)] is designed for disposable use and can be detached from the electrophoresis chamber [(K)].

7. (Amended) The electrophoresis device according to [one of the preceding claims, which is] claim 1 wherein said electrophoresis device comprises part of an analyzer, and which has at least one micro-dispenser to supply the sample on the application areas [(A)] of the injection channels [(I)].

8. (Amended) A procedure for using an electrophoresis device according to [one of the preceding claims, characterized by the fact that ] claim 1, wherein the sample channels are loaded with samples by means of a micro-dispenser, [wherein] and the samples are introduced into the injection channel [(I)] near the crossing point between the injection channel [(I)] and one respective separation channel [(S)] for purposes of sample separation, and transferred into the separation channel by exposing the injection channel to an electrical field, with electrophoretic separation taking place in this separation channel.